

1. Duty Cycle

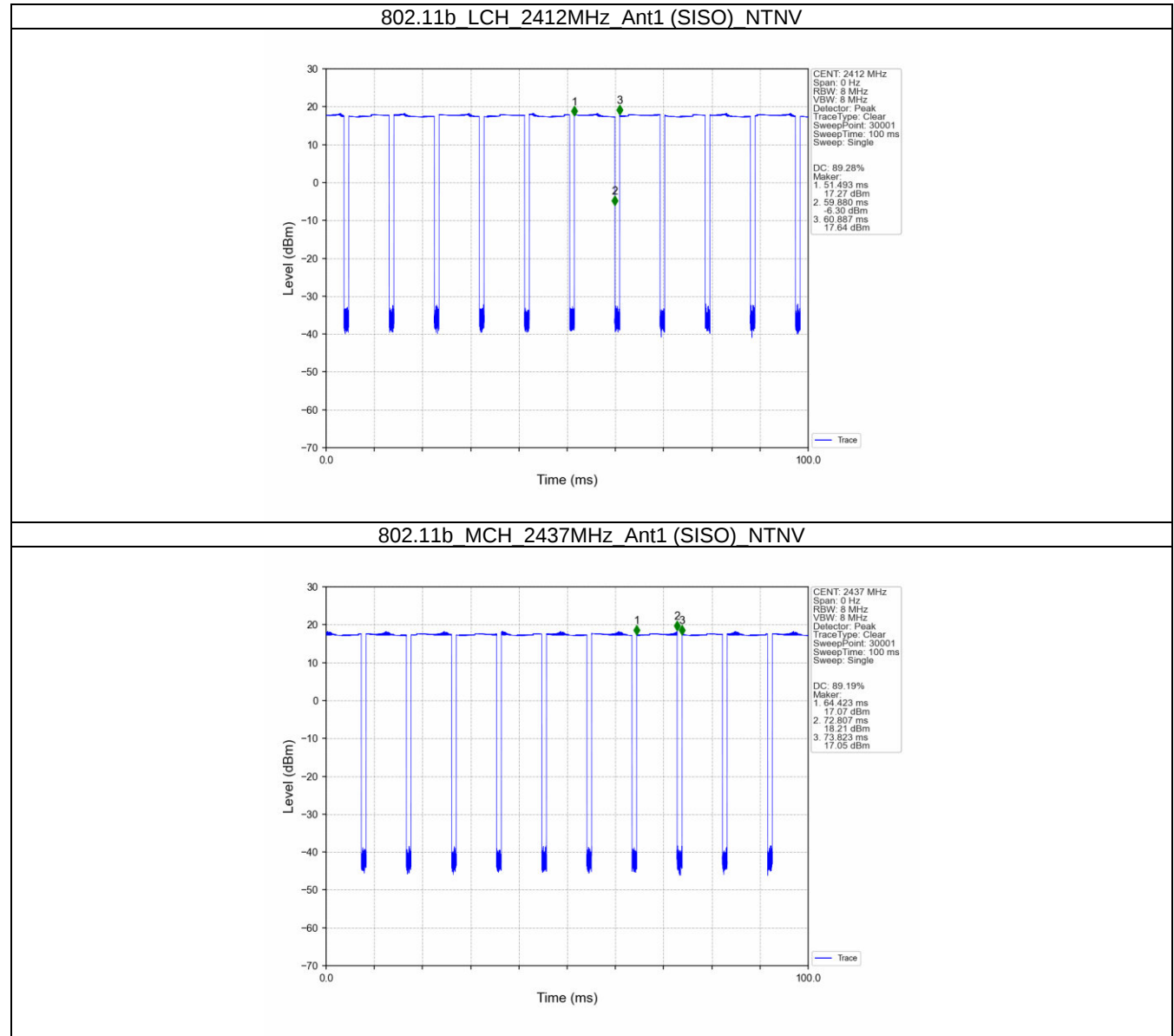
1.1 Test Result

1.1.1 Ant1

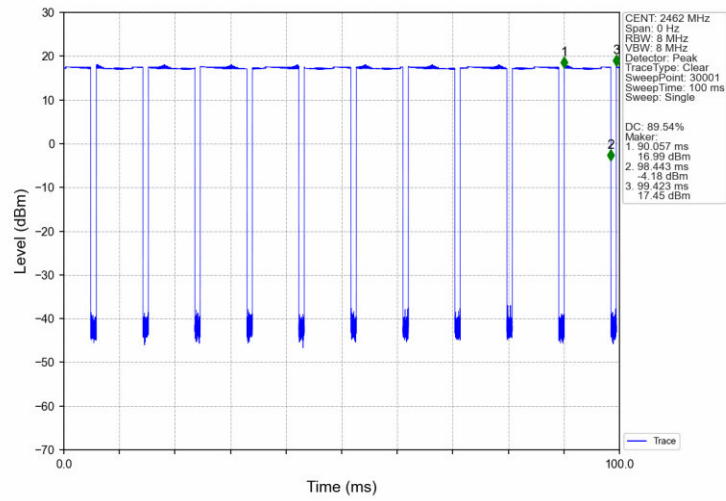
Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	8.387	9.394	89.28	0.49	0.41
		2437	/	/	8.384	9.400	89.19	0.50	0.45
		2462	/	/	8.386	9.366	89.54	0.48	0.10
802.11g	SISO	2412	/	/	1.393	2.372	58.73	2.31	1.59
		2437	/	/	1.392	2.372	58.68	2.31	0.27
		2462	/	/	1.392	2.372	58.68	2.31	0.25
802.11n (HT20)	SISO	2412	/	/	1.288	2.304	55.90	2.53	1.58
		2437	/	/	1.289	2.268	56.83	2.45	0.22
		2462	/	/	1.288	2.268	56.79	2.46	0.26
802.11n (HT40)	SISO	2422	/	/	0.634	1.612	39.33	4.05	0.22
		2437	/	/	0.632	1.612	39.21	4.07	0.24
		2452	/	/	0.633	1.613	39.24	4.06	0.24
802.11ax (HEW20)	SISO	2412	SU	/	1.309	2.288	57.21	2.43	0.22
		2437	SU	/	1.309	2.289	57.19	2.43	0.24
		2462	SU	/	1.308	2.288	57.17	2.43	0.26
802.11ax (HEW40)	SISO	2422	SU	/	0.652	1.632	39.95	3.98	1.85
		2437	SU	/	0.652	1.623	40.17	3.96	0.03
		2452	SU	/	0.653	1.632	40.01	3.98	19.30

1.2 Test Graph

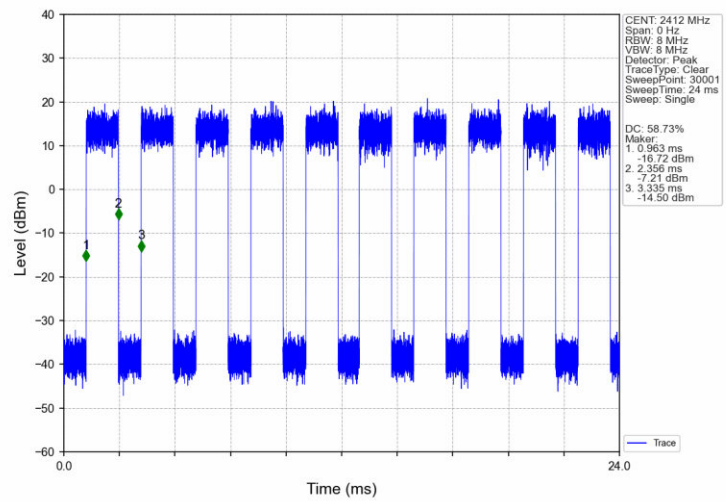
1.2.1 Ant1



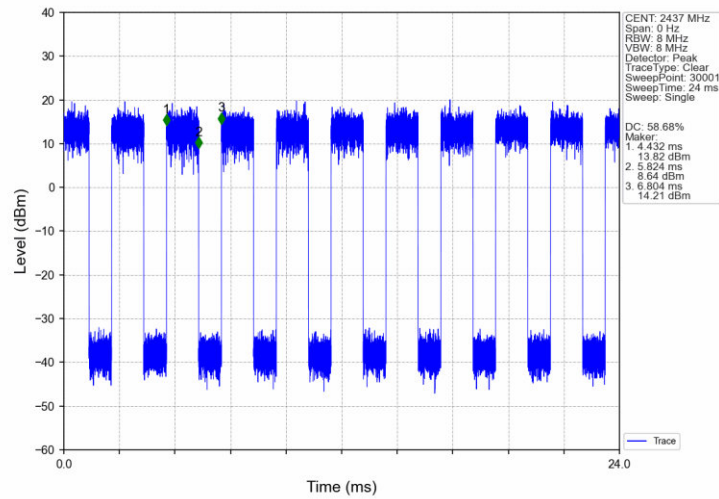
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



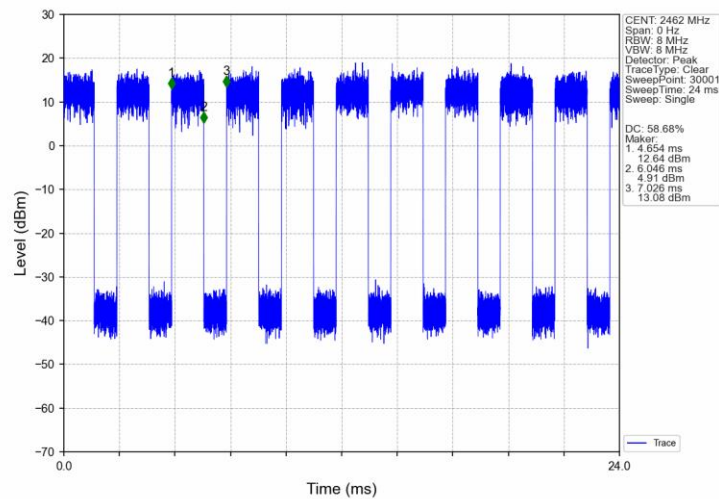
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



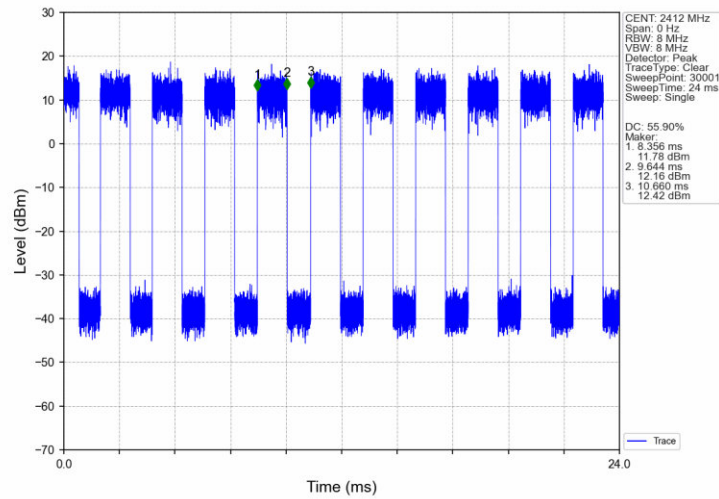
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



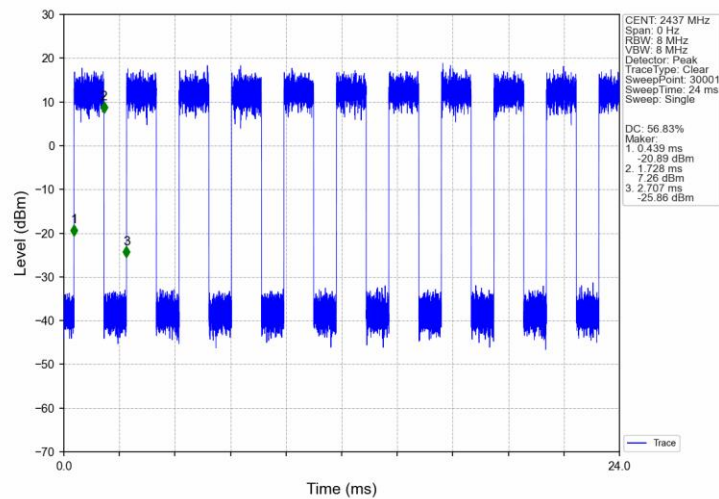
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



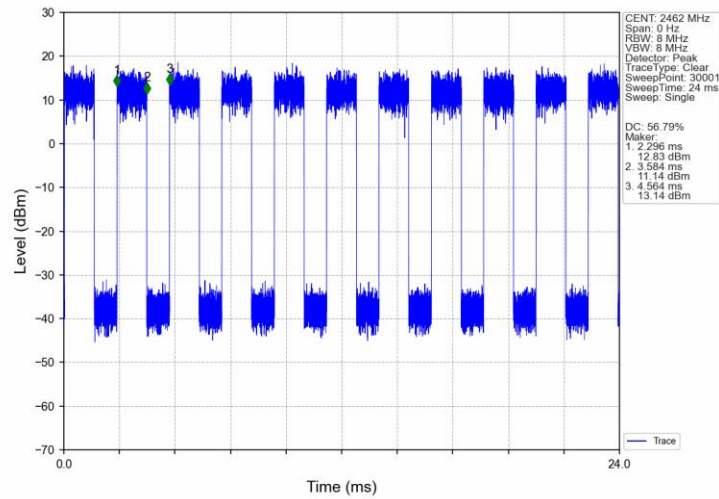
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



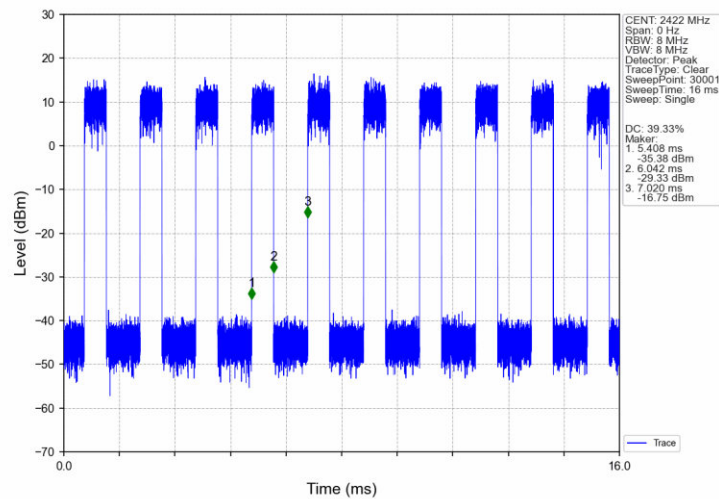
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



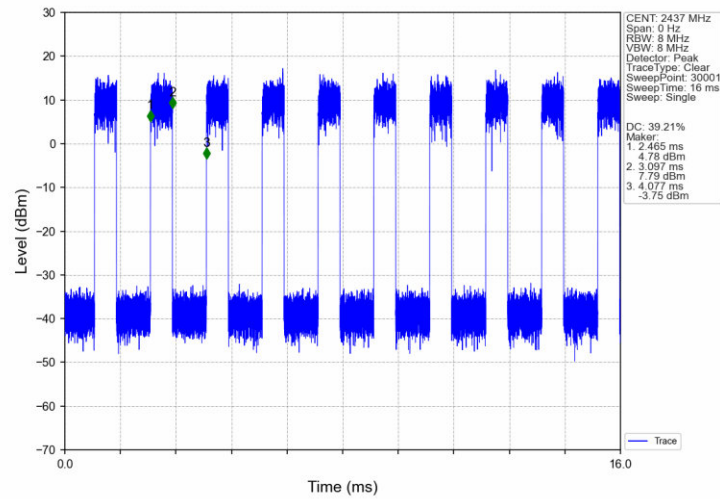
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



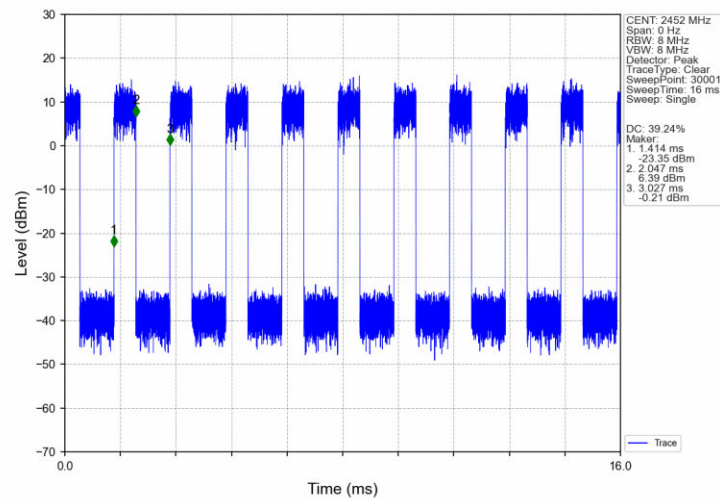
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



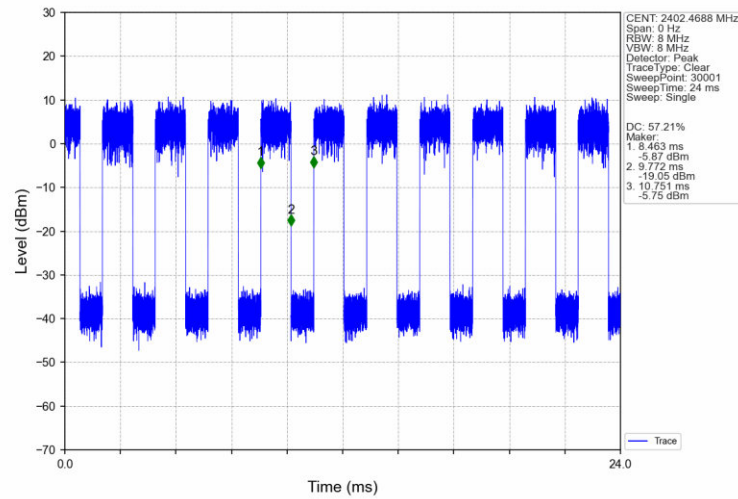
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



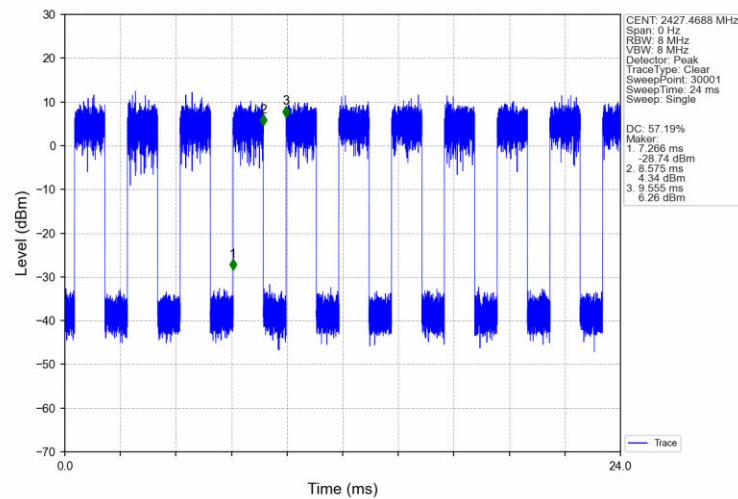
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



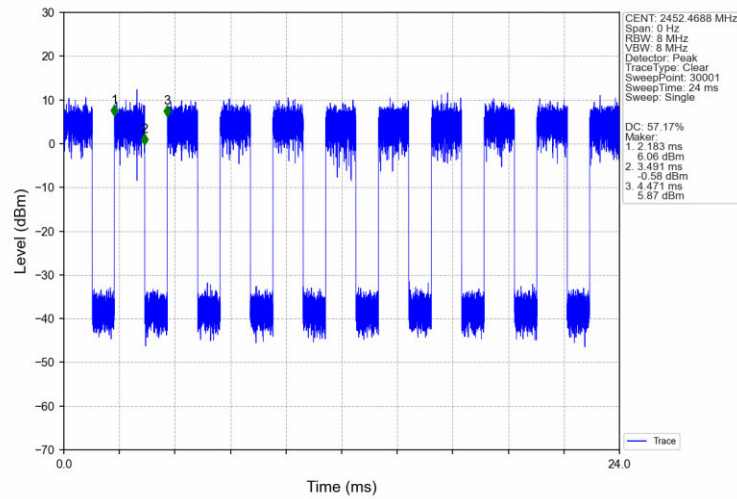
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



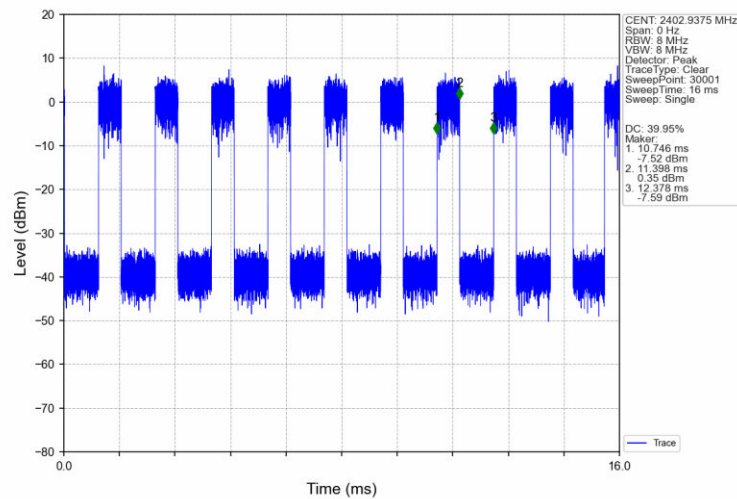
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



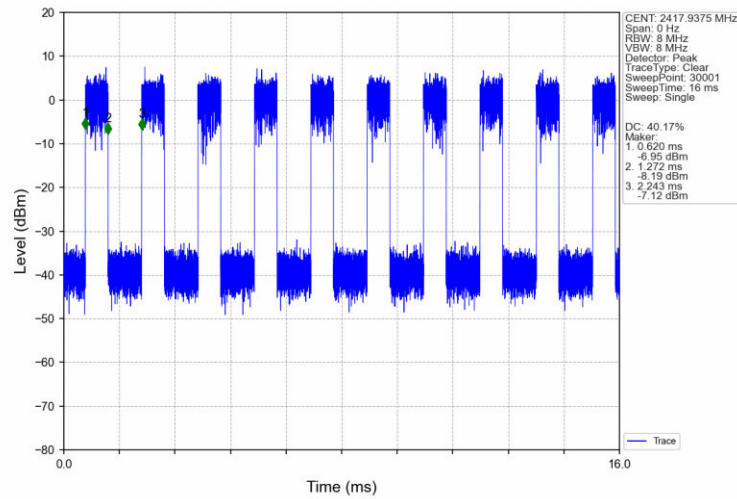
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



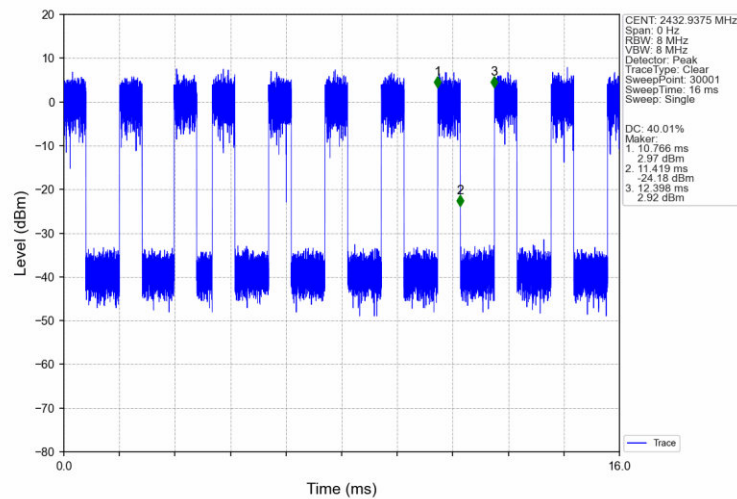
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	13.114	/	Pass
		2437	/	/	1	12.710	/	Pass
		2462	/	/	1	12.565	/	Pass
802.11g	SISO	2412	/	/	1	17.335	/	Pass
		2437	/	/	1	17.257	/	Pass
		2462	/	/	1	17.199	/	Pass
802.11n (HT20)	SISO	2412	/	/	1	18.196	/	Pass
		2437	/	/	1	18.087	/	Pass
		2462	/	/	1	18.013	/	Pass
802.11n (HT40)	SISO	2422	/	/	1	36.402	/	Pass
		2437	/	/	1	36.177	/	Pass
		2452	/	/	1	36.432	/	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	18.167	/	Pass
		2437	SU	/	1	18.029	/	Pass
		2462	SU	/	1	18.002	/	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	36.323	/	Pass
		2437	SU	/	1	35.982	/	Pass
		2452	SU	/	1	36.415	/	Pass

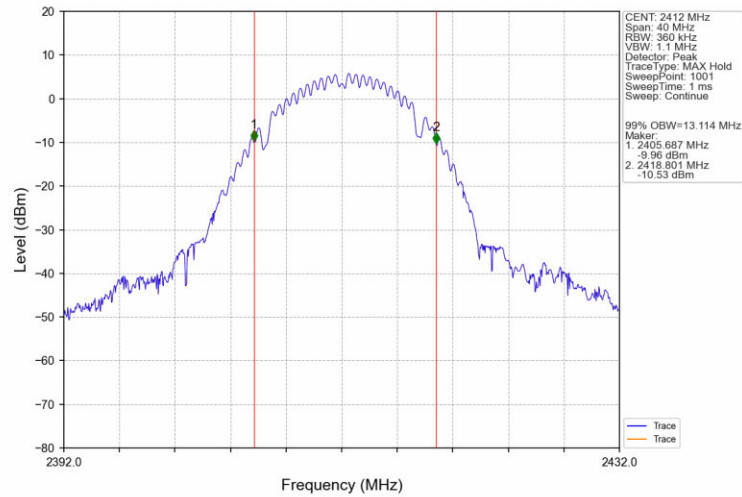
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11b	SISO	2412	/	/	1	8.593	>=0.5	Pass
		2437	/	/	1	8.094	>=0.5	Pass
		2462	/	/	1	8.095	>=0.5	Pass
802.11g	SISO	2412	/	/	1	15.155	>=0.5	Pass
		2437	/	/	1	15.125	>=0.5	Pass
		2462	/	/	1	15.129	>=0.5	Pass
802.11n (HT20)	SISO	2412	/	/	1	15.154	>=0.5	Pass
		2437	/	/	1	15.139	>=0.5	Pass
		2462	/	/	1	15.140	>=0.5	Pass
802.11n (HT40)	SISO	2422	/	/	1	35.141	>=0.5	Pass
		2437	/	/	1	32.584	>=0.5	Pass
		2452	/	/	1	35.156	>=0.5	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	15.133	>=0.5	Pass
		2437	SU	/	1	15.107	>=0.5	Pass
		2462	SU	/	1	15.135	>=0.5	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	35.104	>=0.5	Pass
		2437	SU	/	1	32.600	>=0.5	Pass
		2452	SU	/	1	35.177	>=0.5	Pass

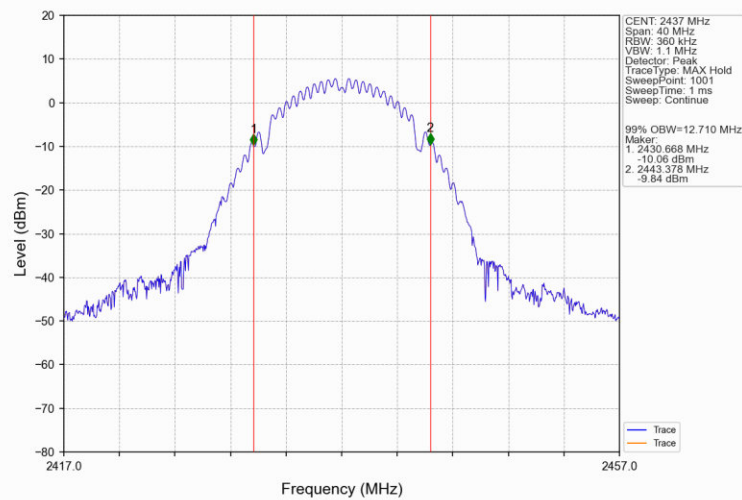
2.2 Test Graph

2.2.1 OBW

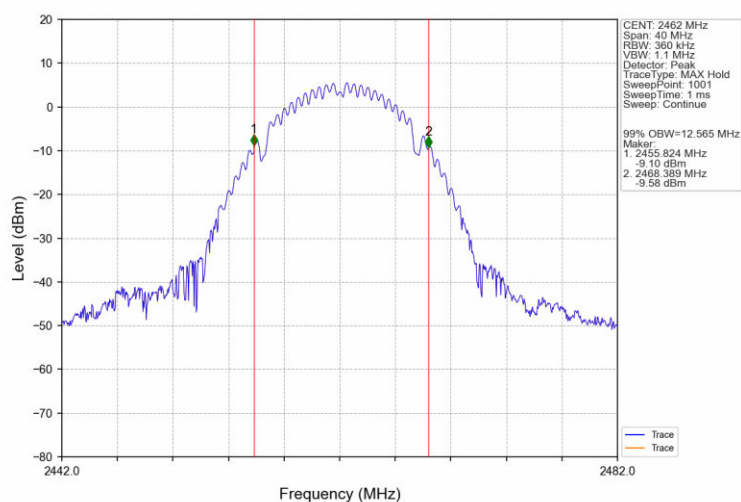
802.11b LCH 2412MHz Ant1 (SISO) NTN



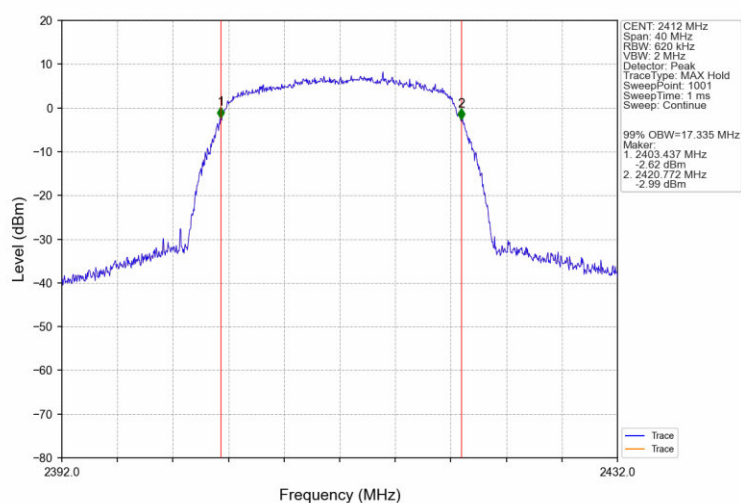
802.11b MCH 2437MHz Ant1 (SISO) NTN



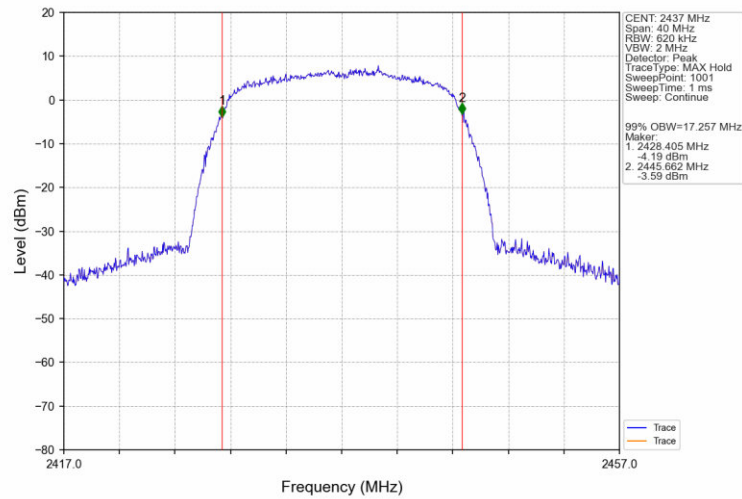
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



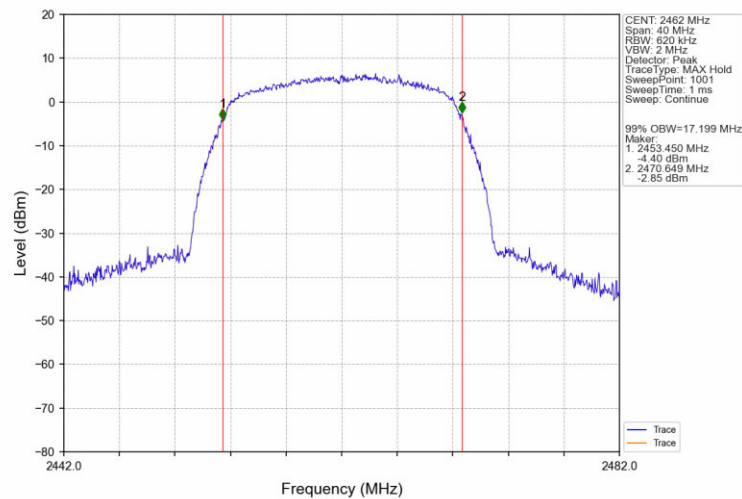
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



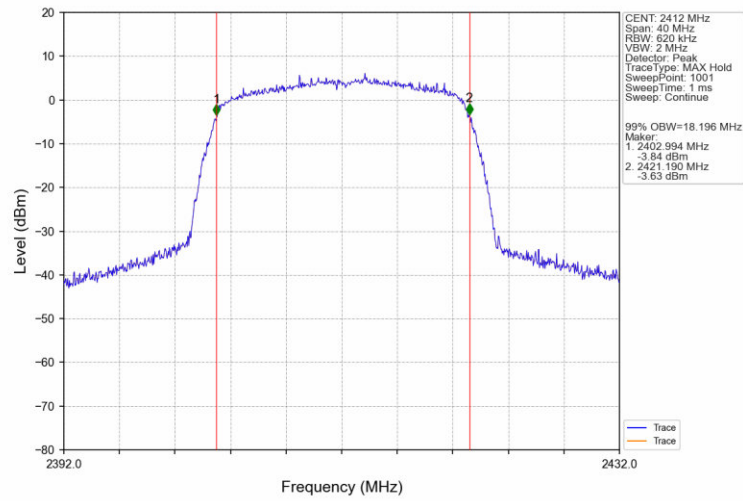
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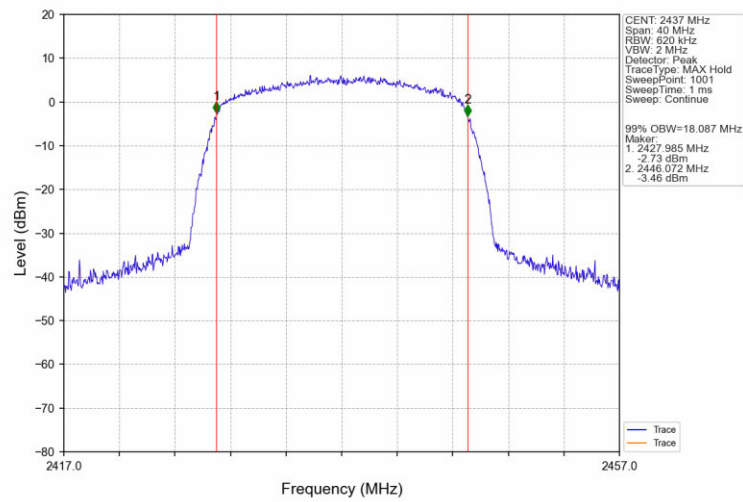
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



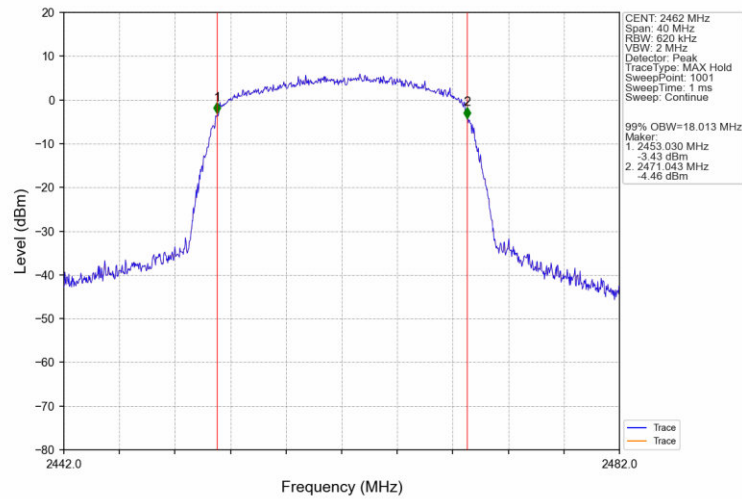
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



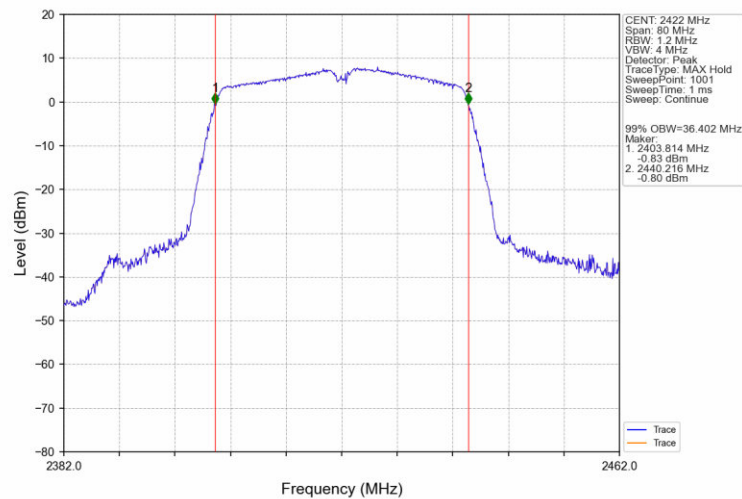
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



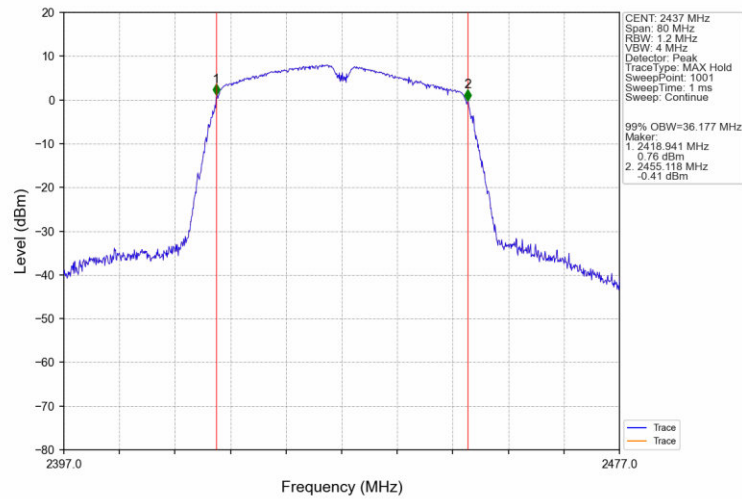
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



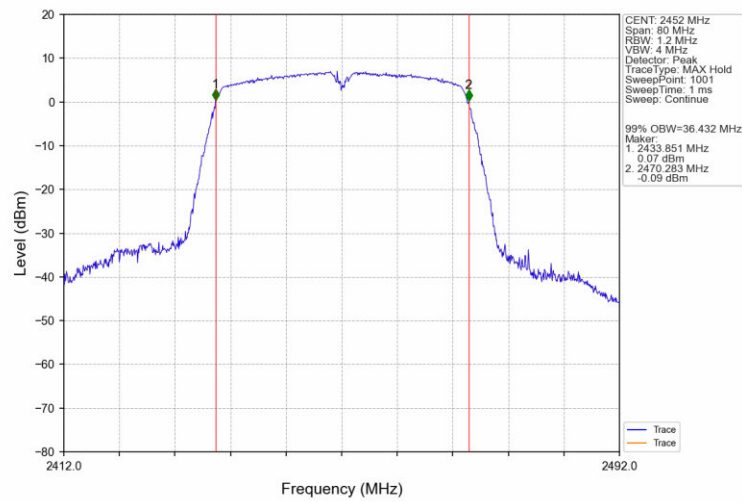
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



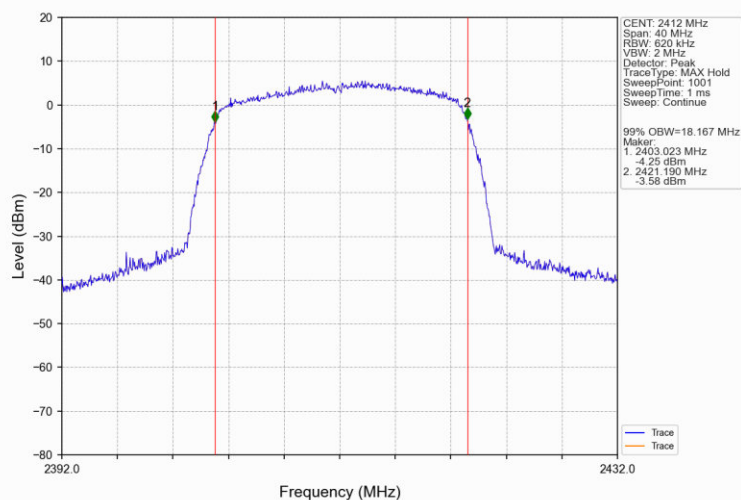
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



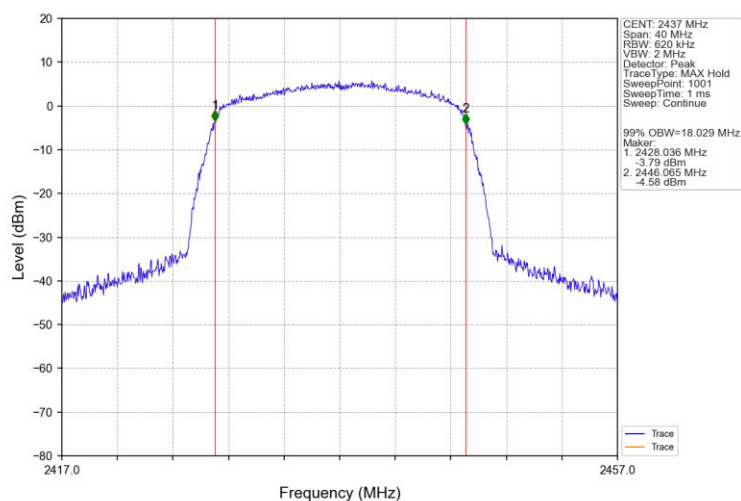
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



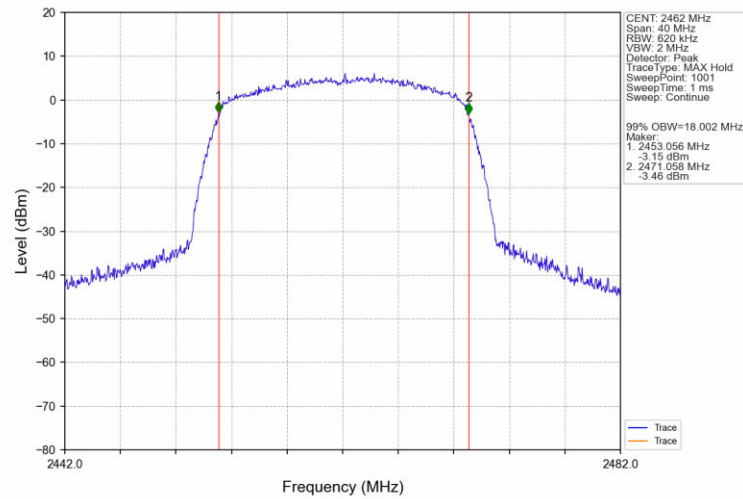
802.11ax(HEW20)_LCH_2412MHz_SU / _Ant1 (SISO)_NTNV



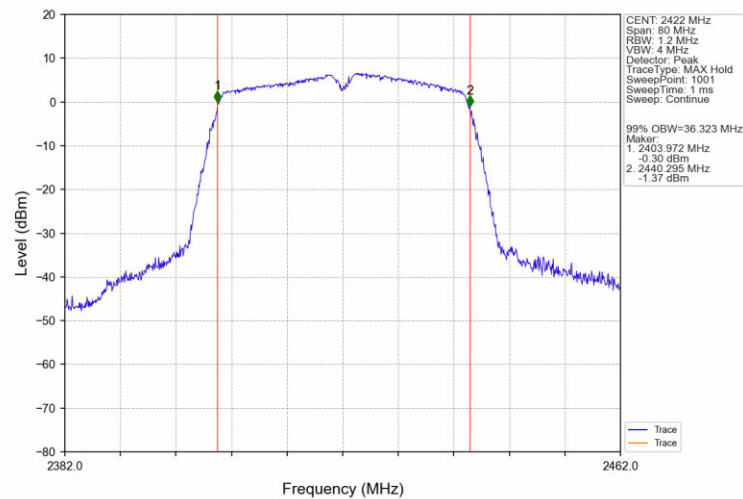
802.11ax(HEW20)_MCH_2437MHz_SU / _Ant1 (SISO)_NTNV



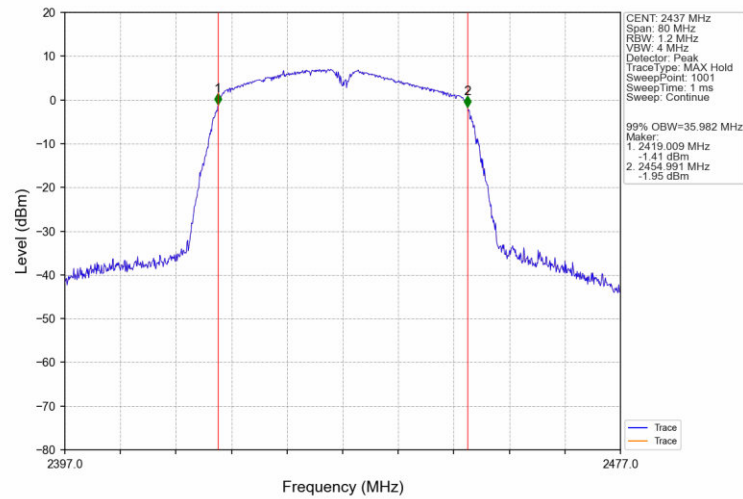
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



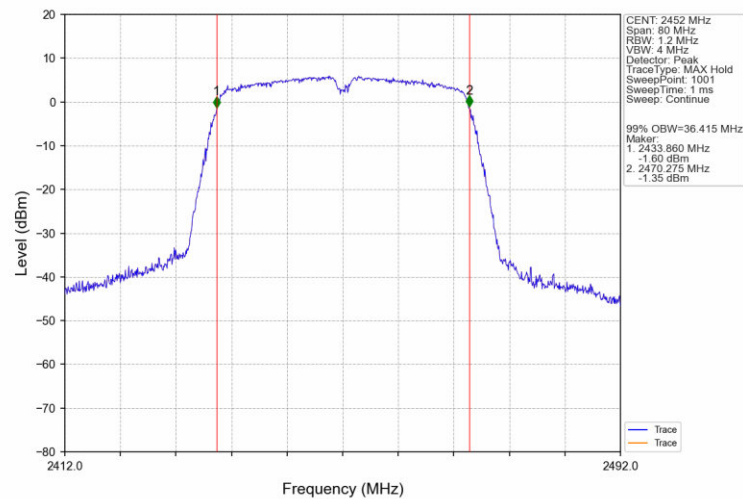
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_/_Ant1(SISO)_NTNV

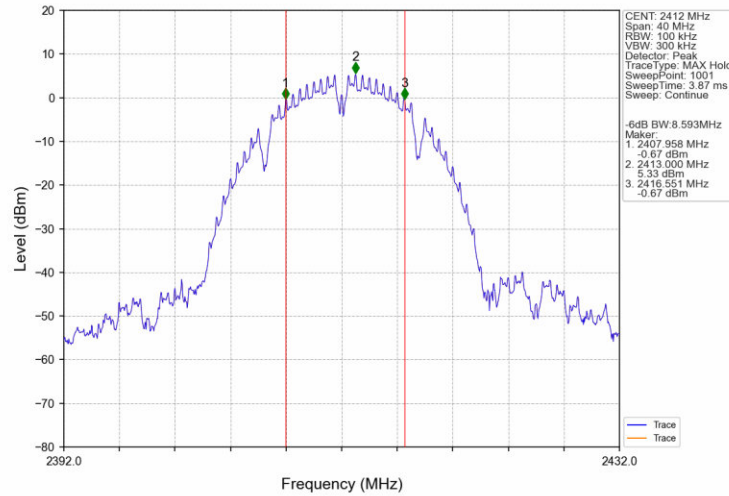


802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1(SISO)_NTNV

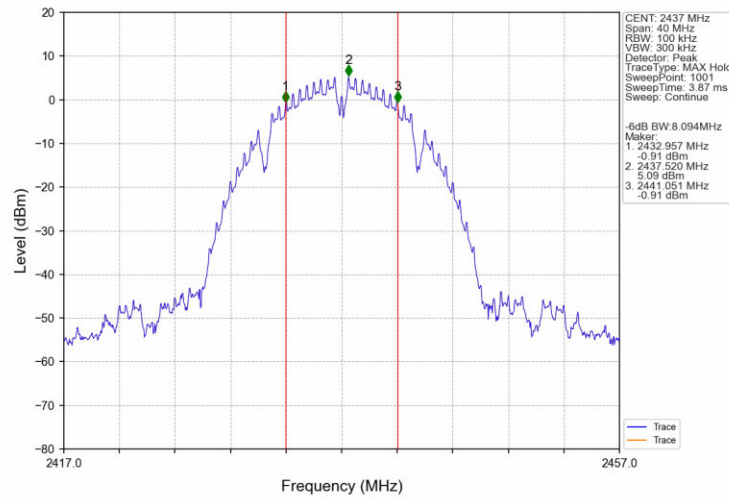


2.2.2 6dB BW

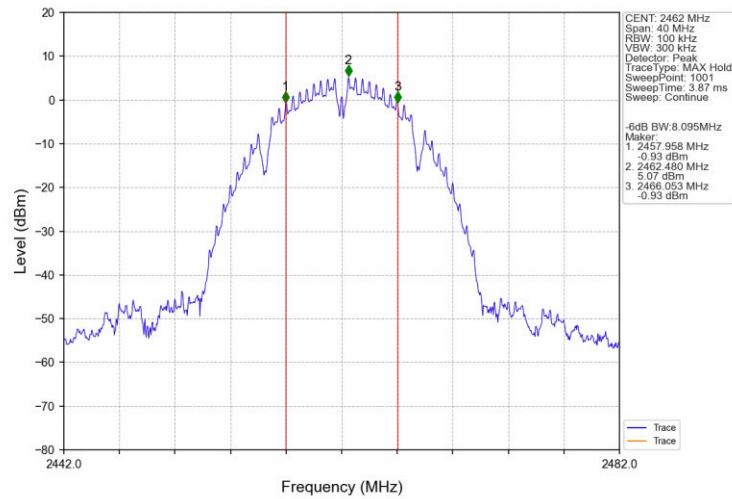
802.11b LCH 2412MHz Ant1 (SISO) NTN



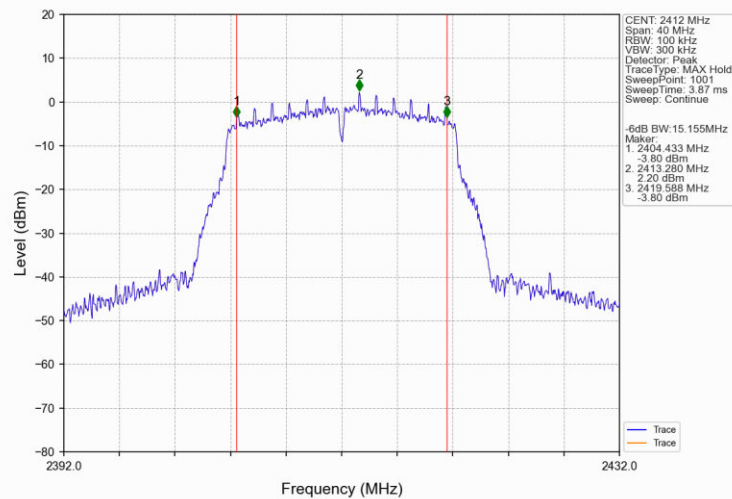
802.11b MCH 2437MHz Ant1 (SISO) NTN



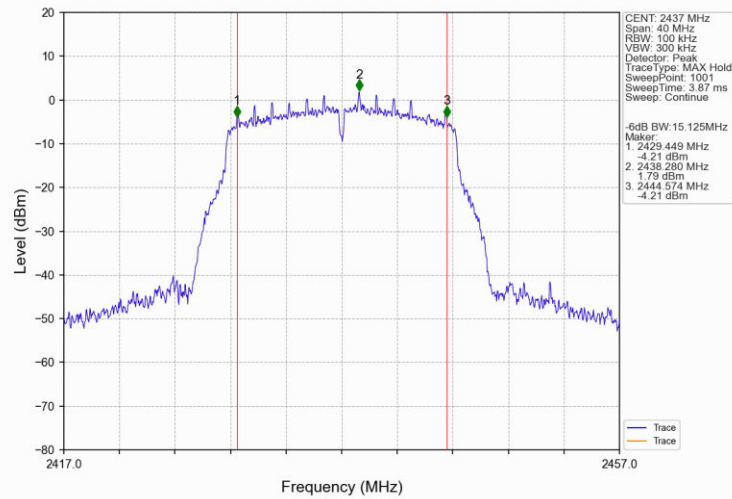
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



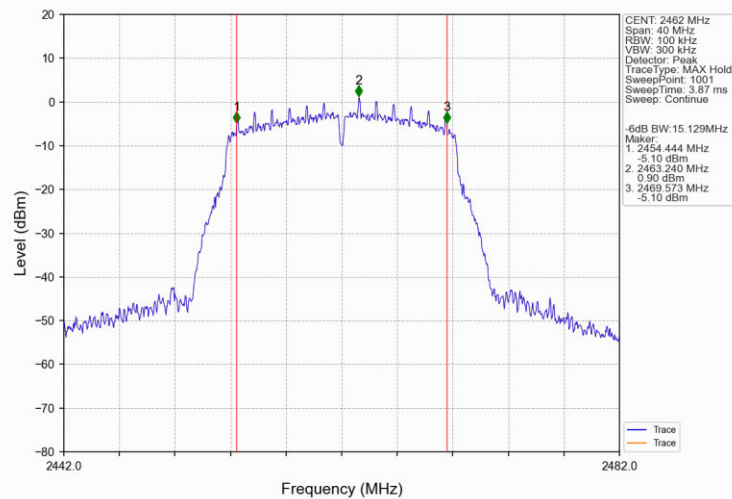
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



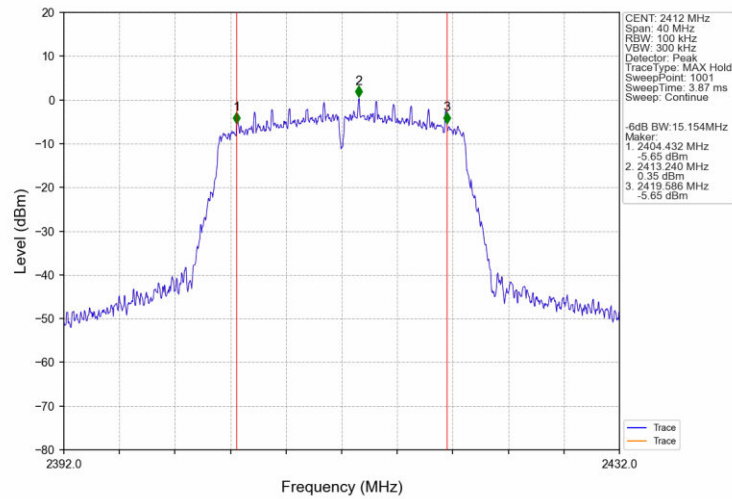
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



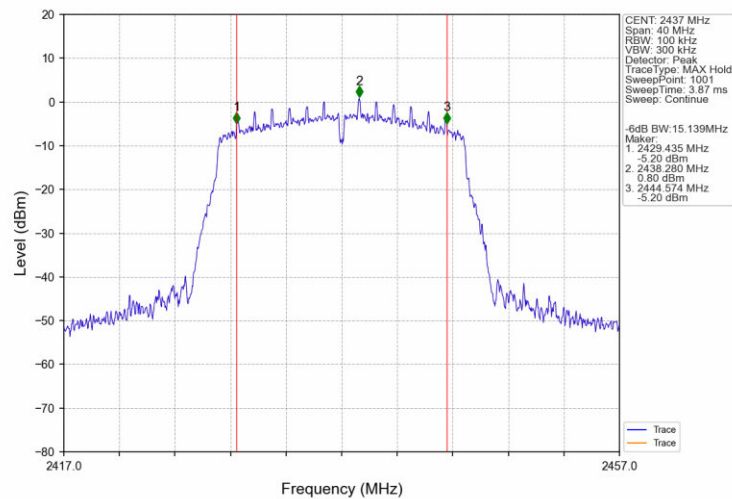
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



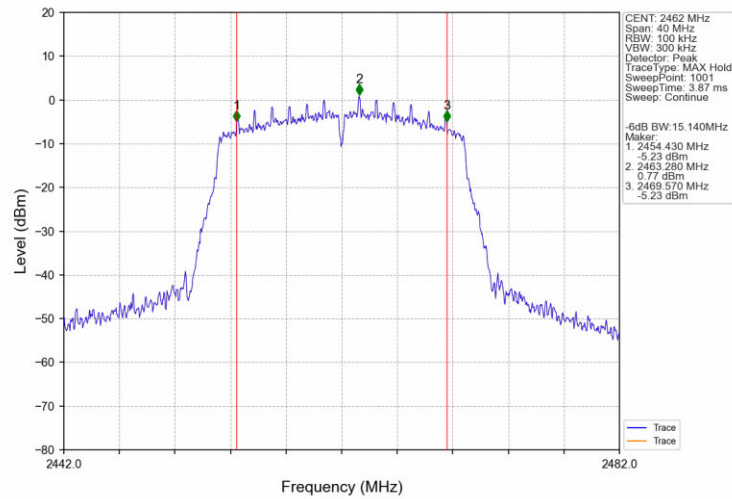
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



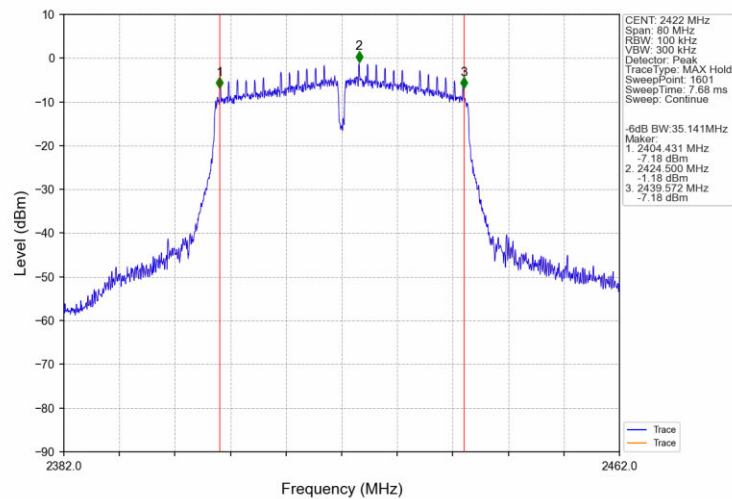
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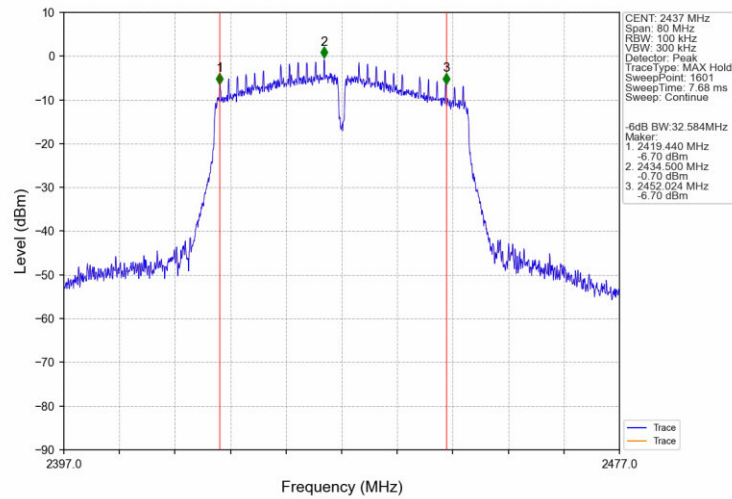
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



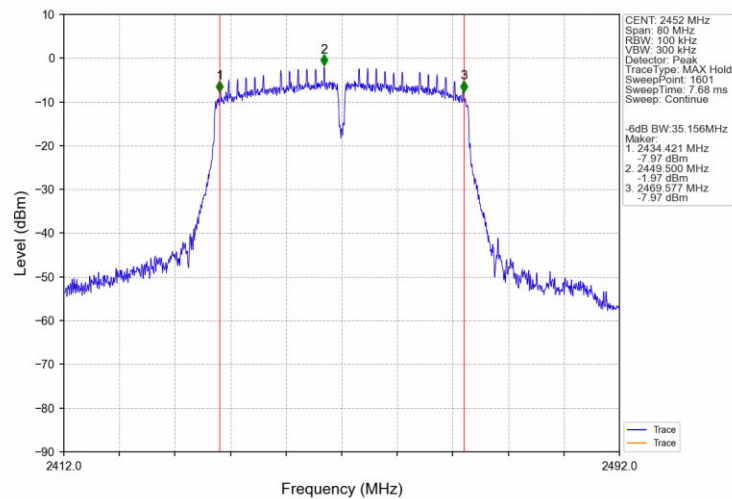
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



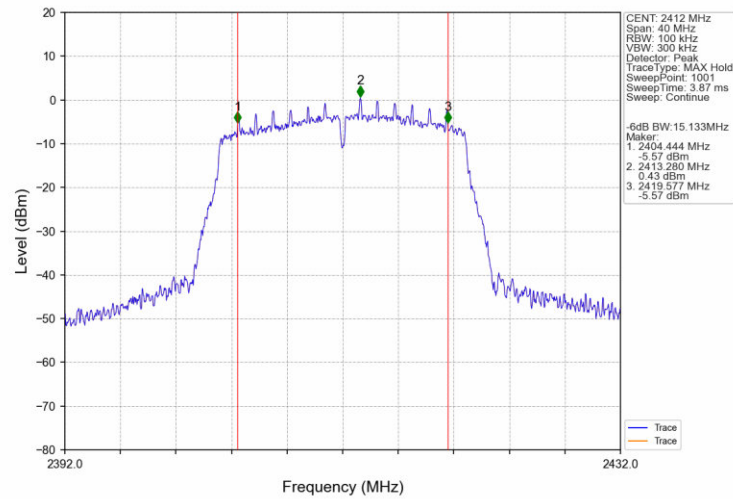
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



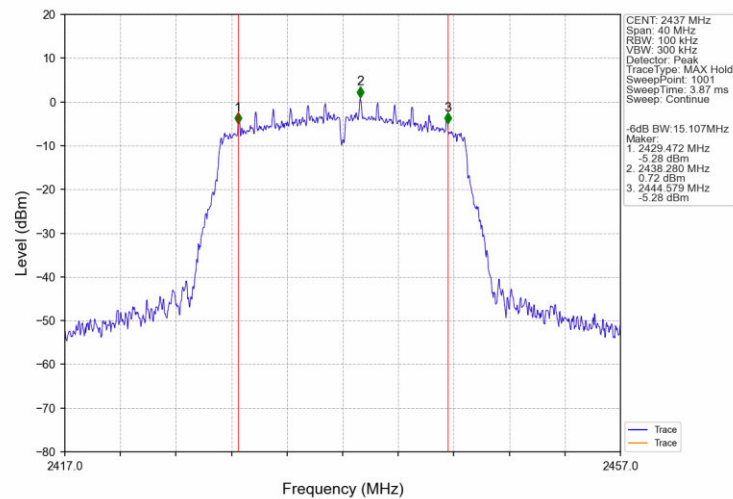
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



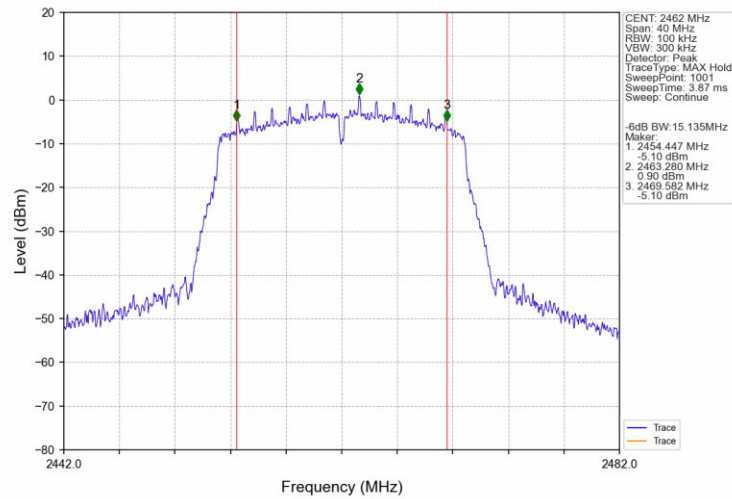
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



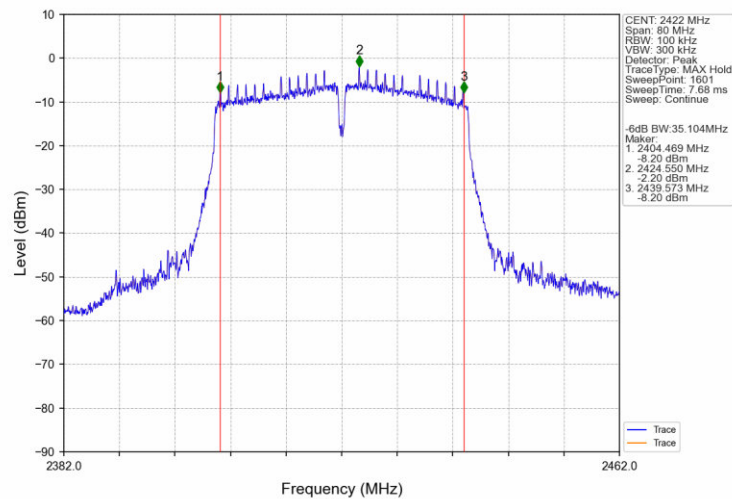
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



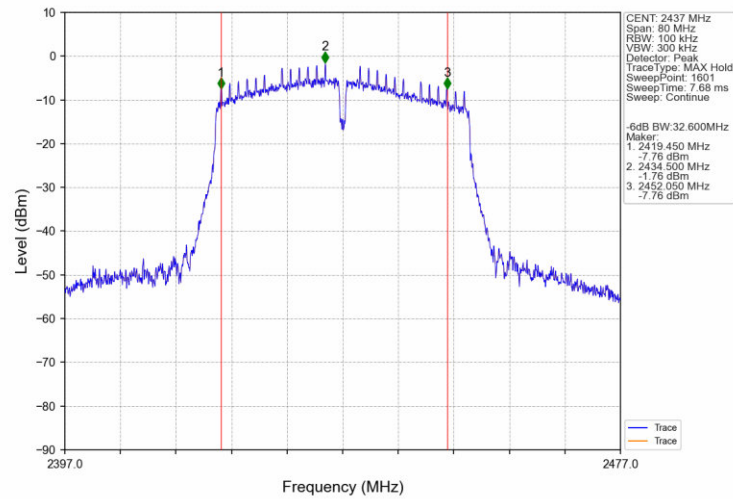
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



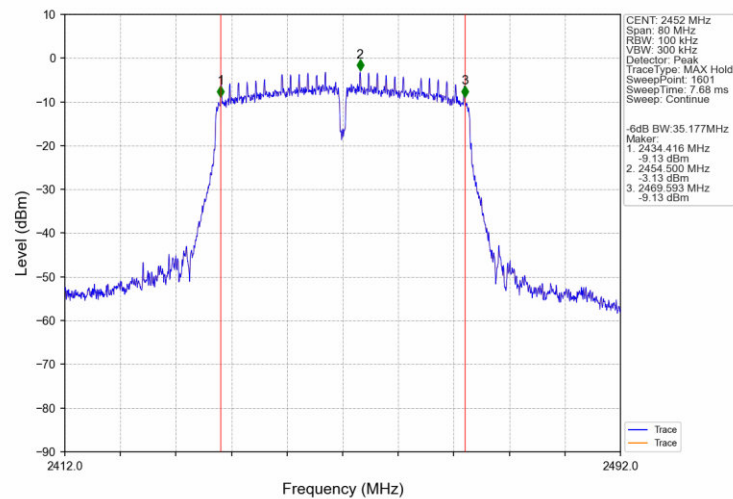
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_/_Ant1(SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1(SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	13.36	<=30	Pass
		2437	/	/	13.73	<=30	Pass
		2462	/	/	11.93	<=30	Pass
802.11g	SISO	2412	/	/	17.91	<=30	Pass
		2437	/	/	18.18	<=30	Pass
		2462	/	/	18.19	<=30	Pass
802.11n (HT20)	SISO	2412	/	/	17.54	<=30	Pass
		2437	/	/	17.83	<=30	Pass
		2462	/	/	17.84	<=30	Pass
802.11n (HT40)	SISO	2422	/	/	19.20	<=30	Pass
		2437	/	/	19.09	<=30	Pass
		2452	/	/	18.99	<=30	Pass
802.11ax (HEW20)	SISO	2412	SU	/	17.44	<=30	Pass
		2437	SU	/	17.80	<=30	Pass
		2462	SU	/	17.72	<=30	Pass
802.11ax (HEW40)	SISO	2422	SU	/	18.13	<=30	Pass
		2437	SU	/	18.17	<=30	Pass
		2452	SU	/	18.06	<=30	Pass

Note1: Antenna Gain: Ant1: 3.42dBi;

4. Maximum Power Spectral Density

4.1 Test Result

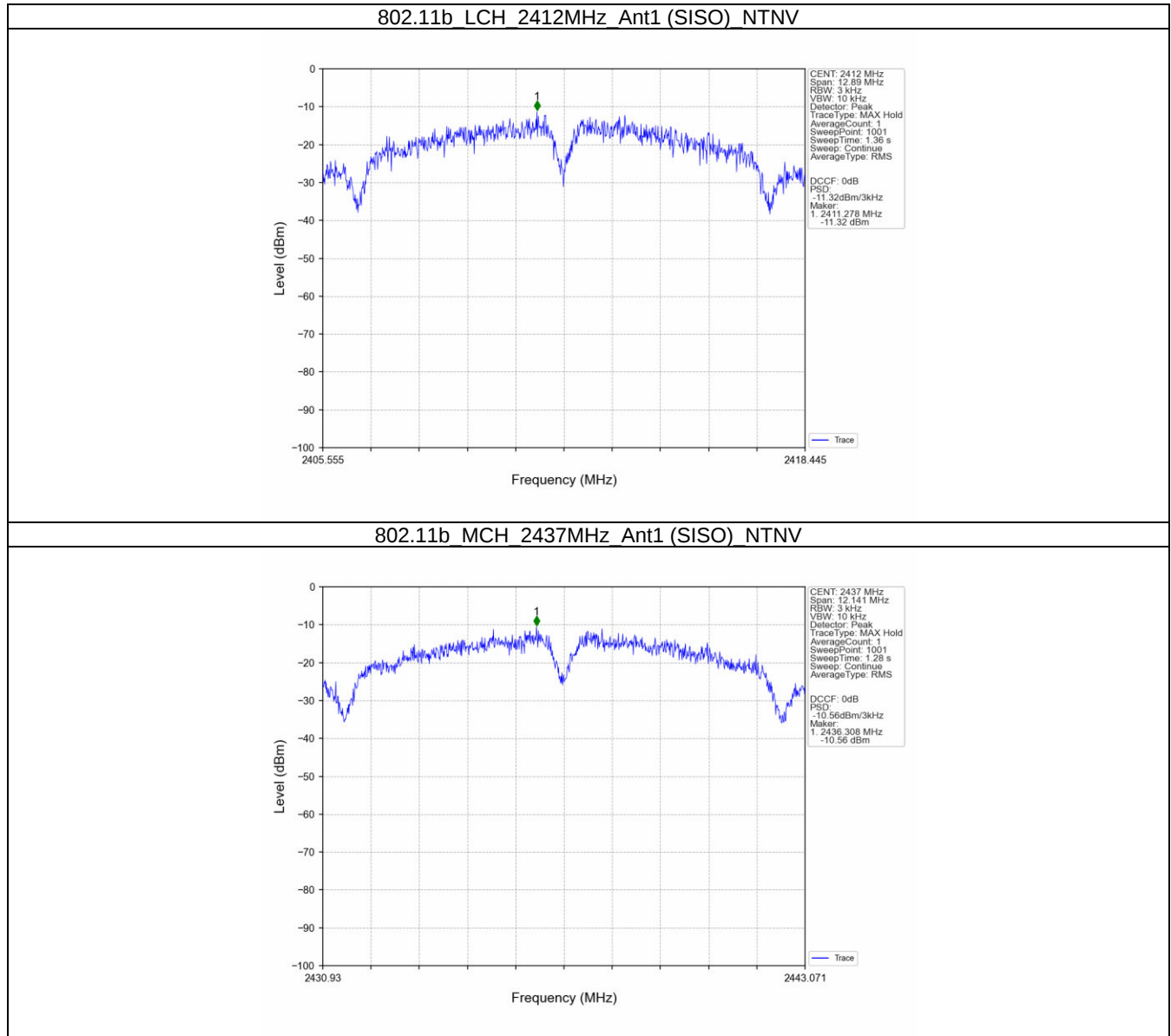
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)		Verdict
					ANT1	Limit	
802.11b	SISO	2412	/	/	-11.32	<=8	Pass
		2437	/	/	-10.56	<=8	Pass
		2462	/	/	-13.67	<=8	Pass
802.11g	SISO	2412	/	/	-13.76	<=8	Pass
		2437	/	/	-14.22	<=8	Pass
		2462	/	/	-14.56	<=8	Pass
802.11n (HT20)	SISO	2412	/	/	-15.53	<=8	Pass
		2437	/	/	-15.53	<=8	Pass
		2462	/	/	-14.05	<=8	Pass
802.11n (HT40)	SISO	2422	/	/	-16.11	<=8	Pass
		2437	/	/	-15.81	<=8	Pass
		2452	/	/	-16.13	<=8	Pass
802.11ax (HEW20)	SISO	2412	SU	/	-14.52	<=8	Pass
		2437	SU	/	-13.66	<=8	Pass
		2462	SU	/	-14.49	<=8	Pass
802.11ax (HEW40)	SISO	2422	SU	/	-17.17	<=8	Pass
		2437	SU	/	-17.06	<=8	Pass
		2452	SU	/	-18.35	<=8	Pass

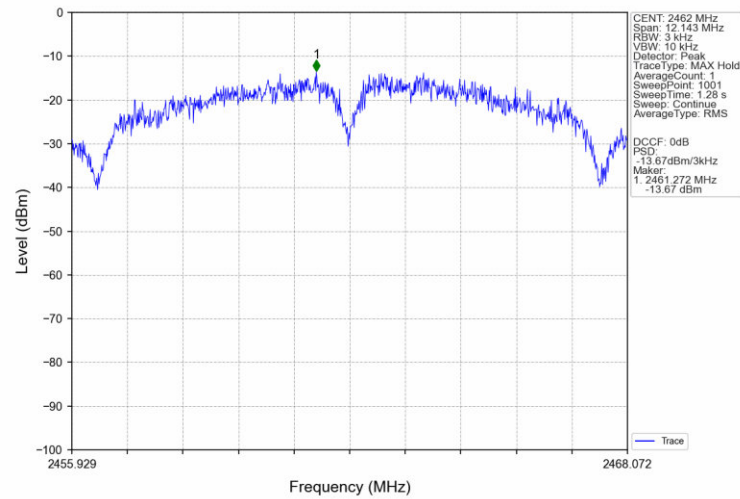
Note1: Antenna Gain: Ant1: 3.42dBi;

4.2 Test Graph

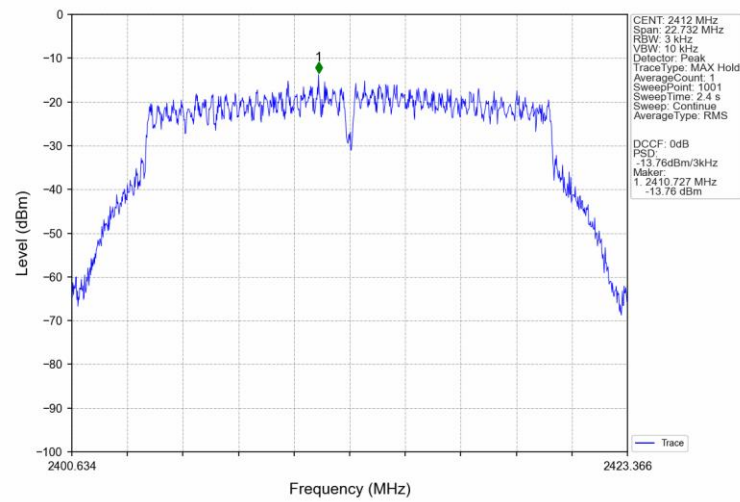
4.2.1 PSD



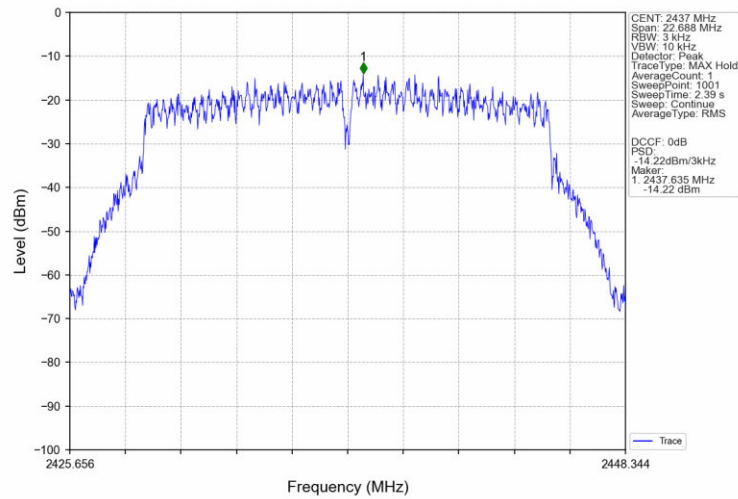
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



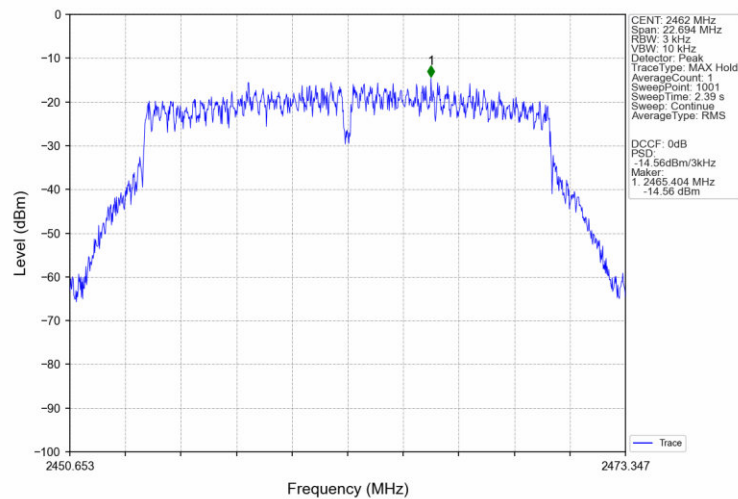
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



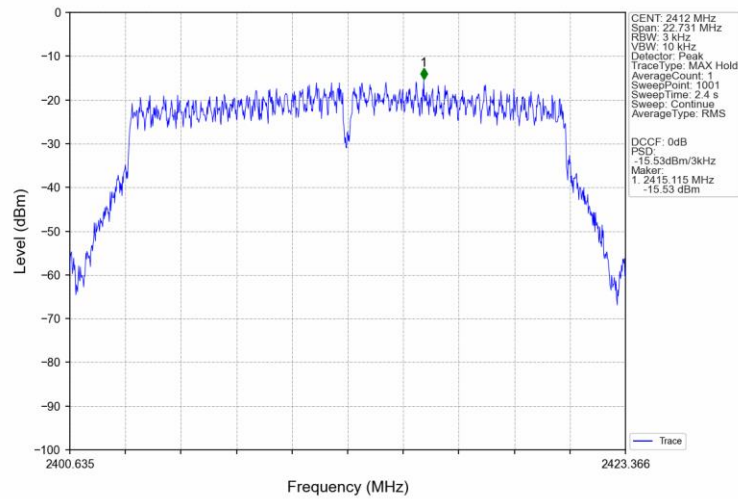
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



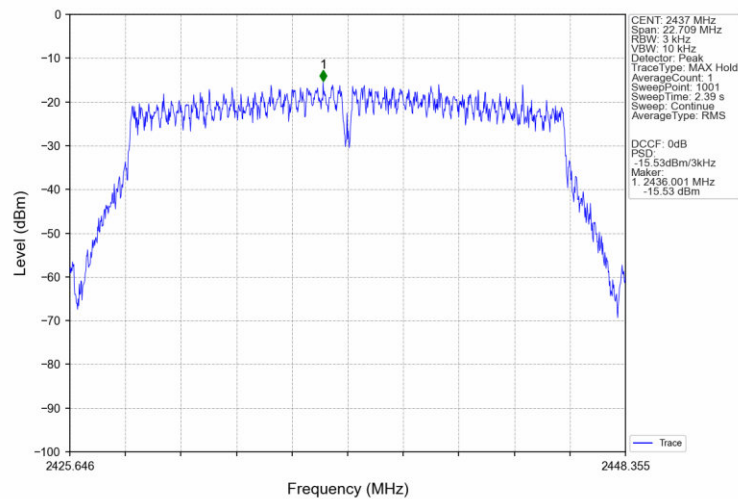
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



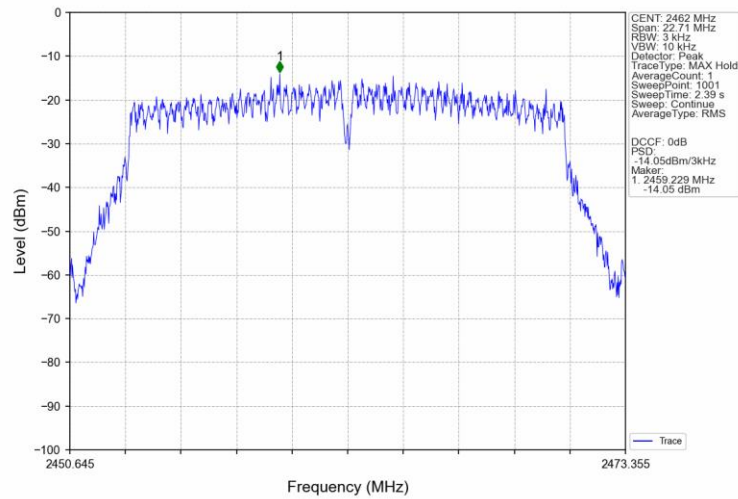
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



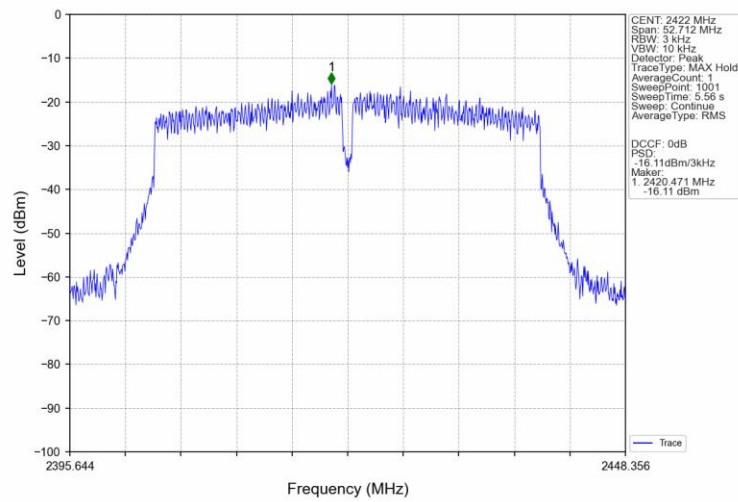
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



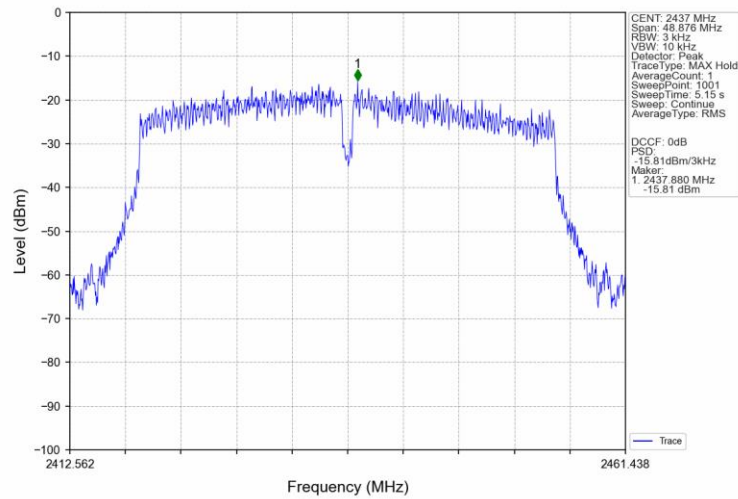
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



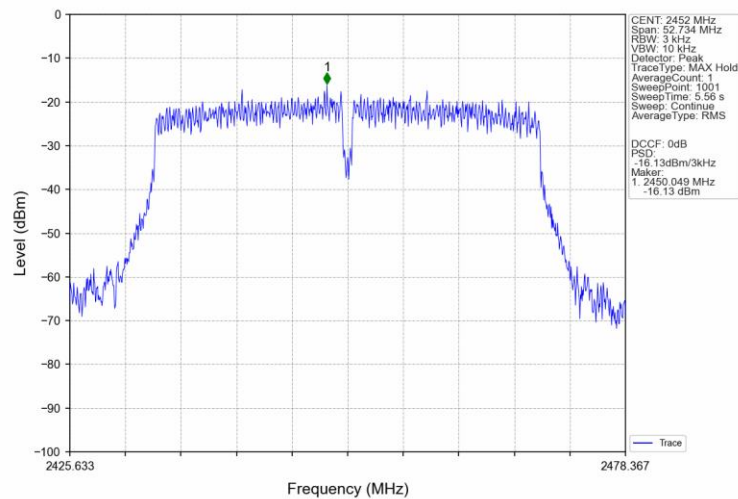
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



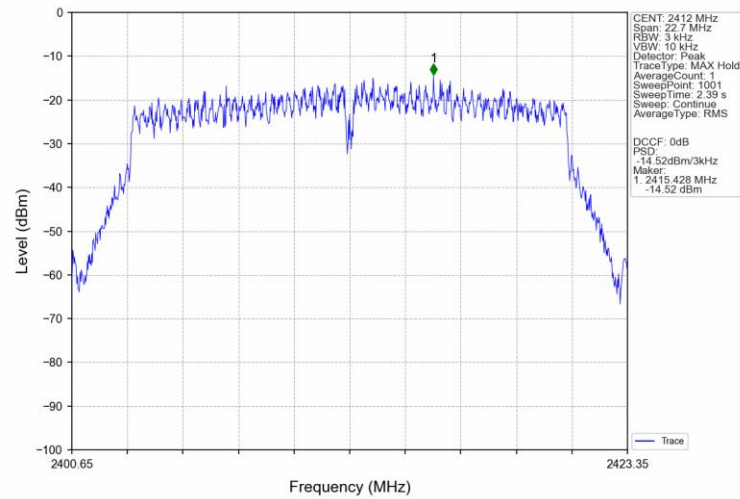
802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



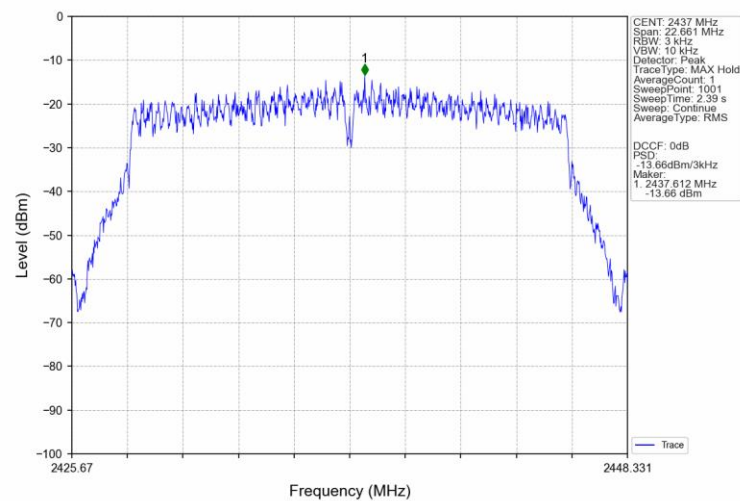
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



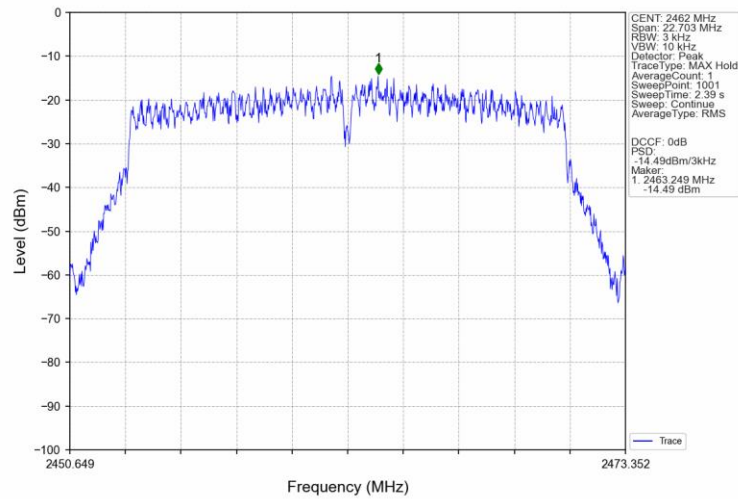
802.11ax(HEW20)_LCH_2412MHz_SU_/_Ant1 (SISO)_NTNV



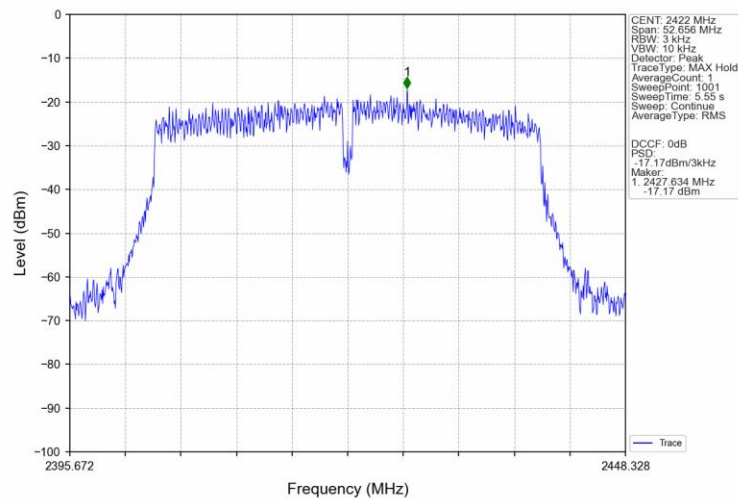
802.11ax(HEW20)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



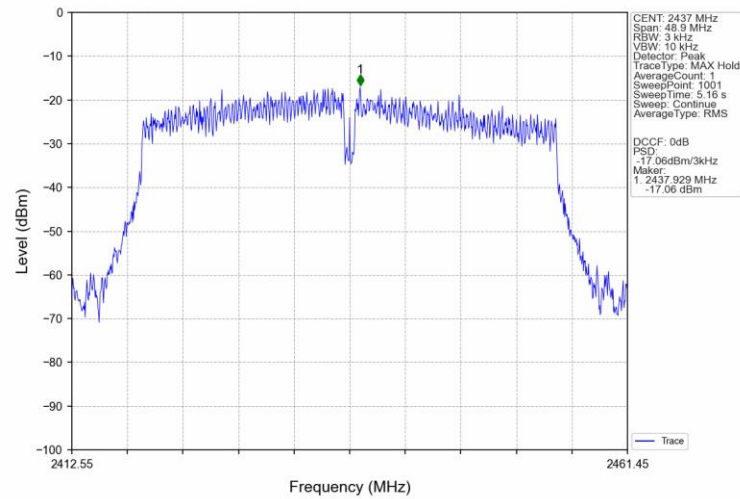
802.11ax(HEW20)_HCH_2462MHz_SU_/_Ant1 (SISO)_NTNV



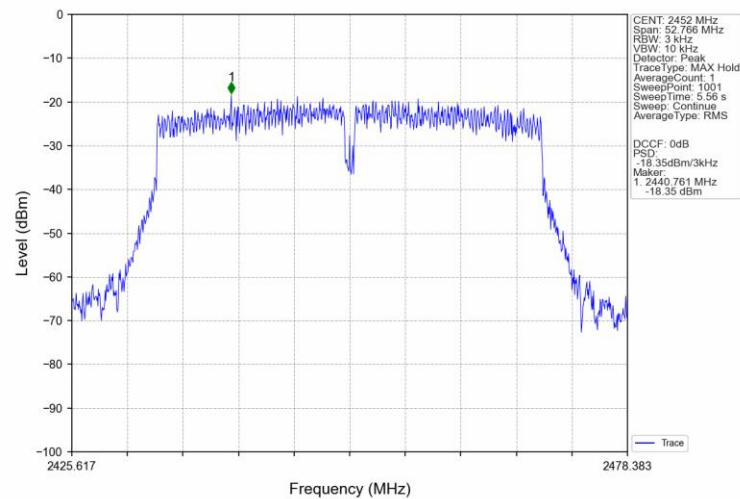
802.11ax(HEW40)_LCH_2422MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_MCH_2437MHz_SU_/_Ant1 (SISO)_NTNV



802.11ax(HEW40)_HCH_2452MHz_SU_/_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	1	4.99
		2437	/	/	1	4.93
		2462	/	/	1	4.95
802.11g	SISO	2412	/	/	1	2.17
		2437	/	/	1	1.78
		2462	/	/	1	0.86
802.11n (HT20)	SISO	2412	/	/	1	-0.70
		2437	/	/	1	0.46
		2462	/	/	1	0.89
802.11n (HT40)	SISO	2422	/	/	1	-1.25
		2437	/	/	1	-0.72
		2452	/	/	1	-1.96
802.11ax (HEW20)	SISO	2412	SU	/	1	0.42
		2437	SU	/	1	0.80
		2462	SU	/	1	0.76
802.11ax (HEW40)	SISO	2422	SU	/	1	-2.14
		2437	SU	/	1	-1.68
		2452	SU	/	1	-2.91

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

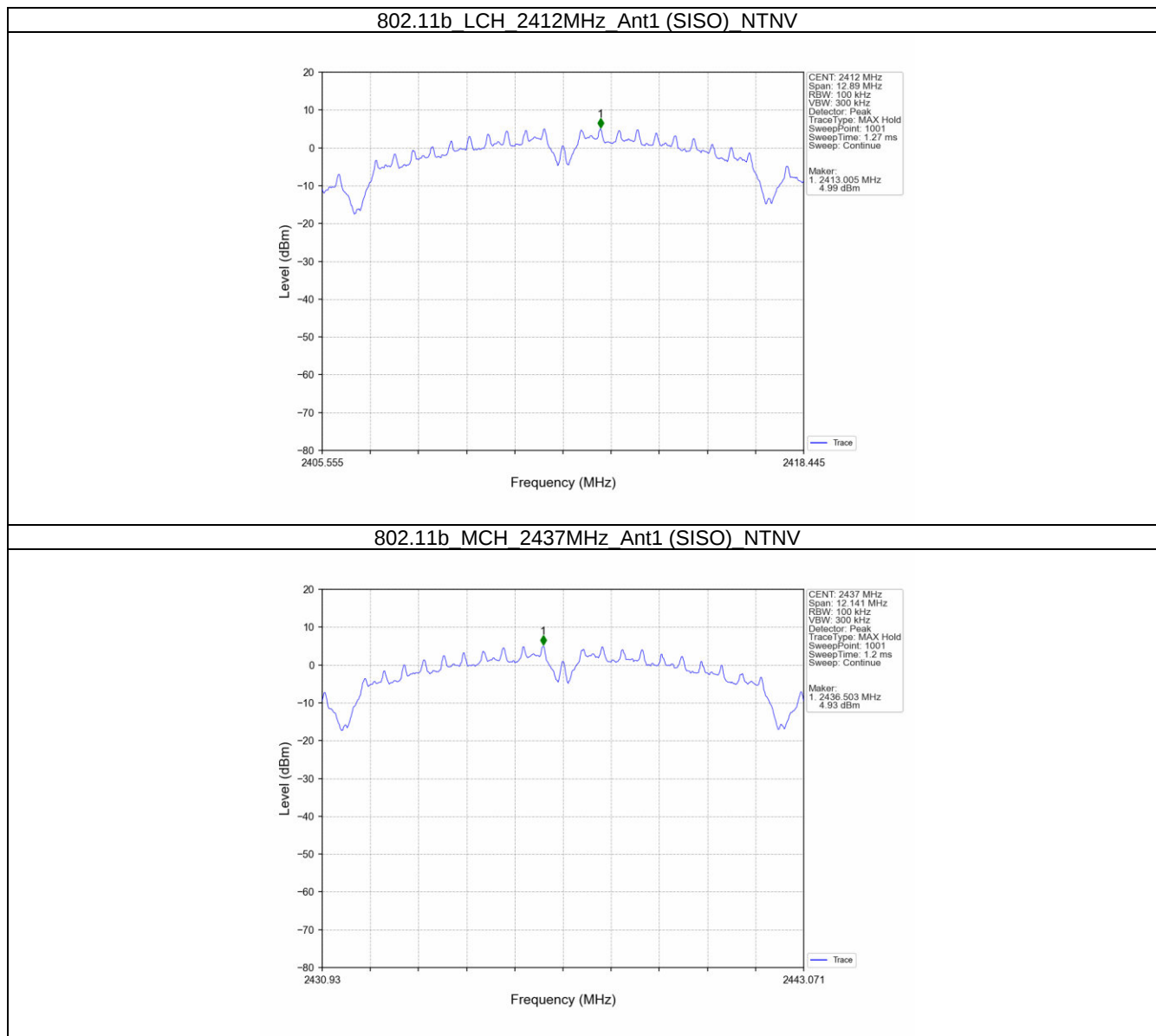
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	4.99	-15.01	Pass
		2437	/	/	1	4.93	-15.07	Pass
		2462	/	/	1	4.95	-15.05	Pass
802.11g	SISO	2412	/	/	1	2.17	-17.83	Pass
		2437	/	/	1	1.78	-18.22	Pass
		2462	/	/	1	0.86	-19.14	Pass
802.11n (HT20)	SISO	2412	/	/	1	-0.70	-20.70	Pass
		2437	/	/	1	0.46	-19.54	Pass
		2462	/	/	1	0.89	-19.11	Pass
802.11n (HT40)	SISO	2422	/	/	1	-1.25	-21.25	Pass
		2437	/	/	1	-0.72	-20.72	Pass
		2452	/	/	1	-1.96	-21.96	Pass
802.11ax (HEW20)	SISO	2412	SU	/	1	0.42	-19.58	Pass
		2437	SU	/	1	0.80	-19.20	Pass
		2462	SU	/	1	0.76	-19.24	Pass
802.11ax (HEW40)	SISO	2422	SU	/	1	-2.14	-22.14	Pass
		2437	SU	/	1	-1.68	-21.68	Pass
		2452	SU	/	1	-2.91	-22.91	Pass

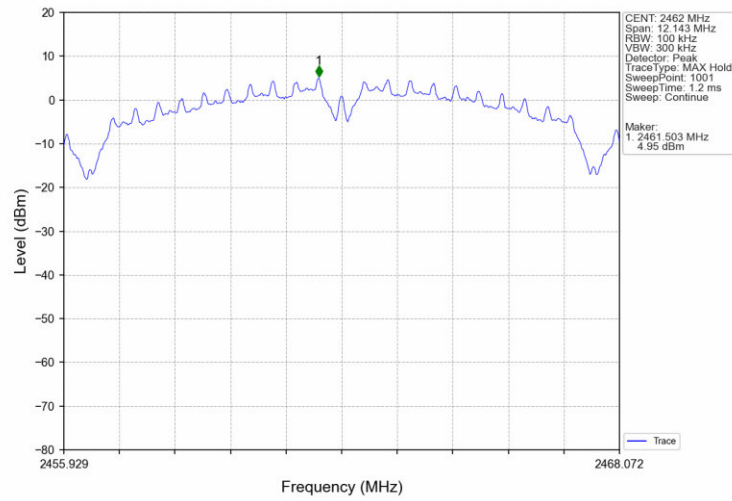
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

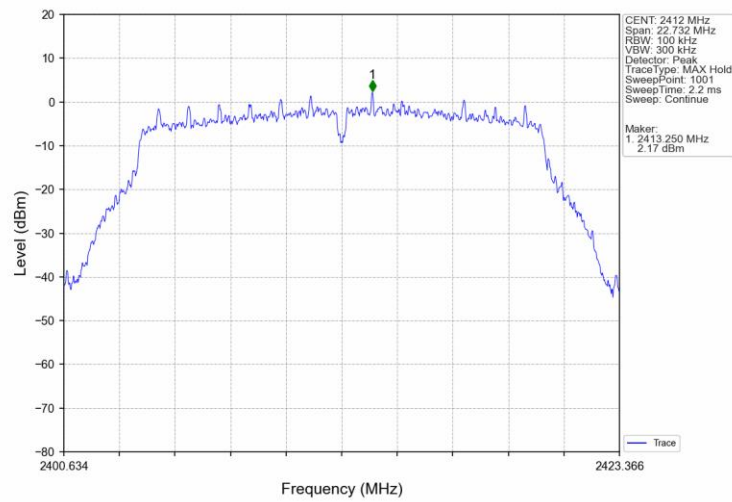
5.2.1 Ref



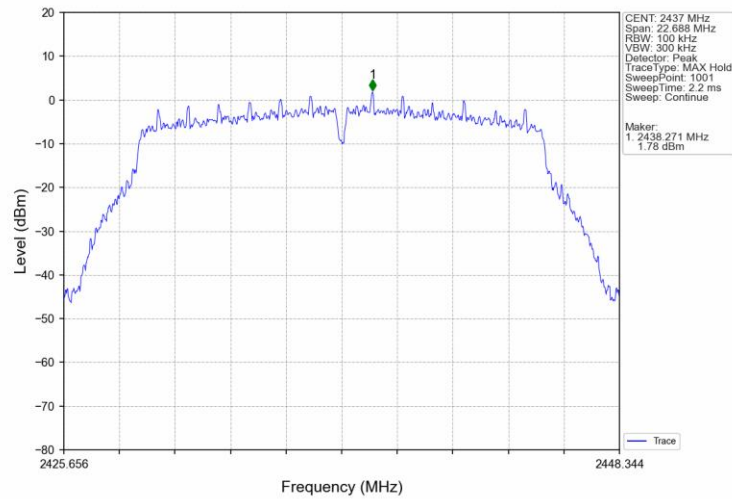
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



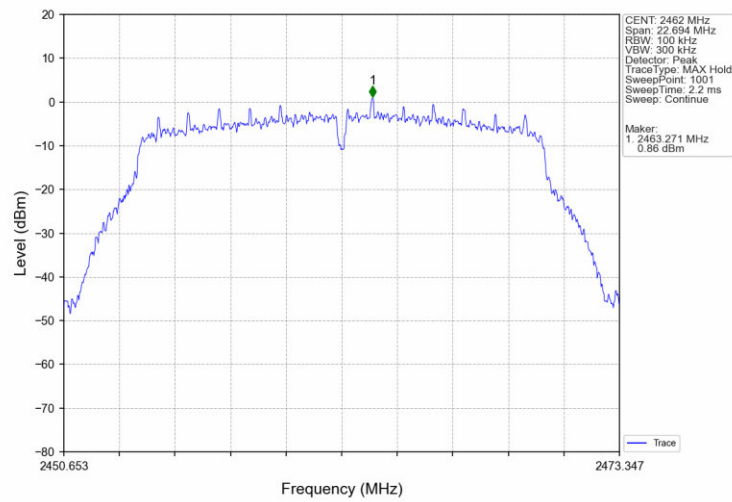
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



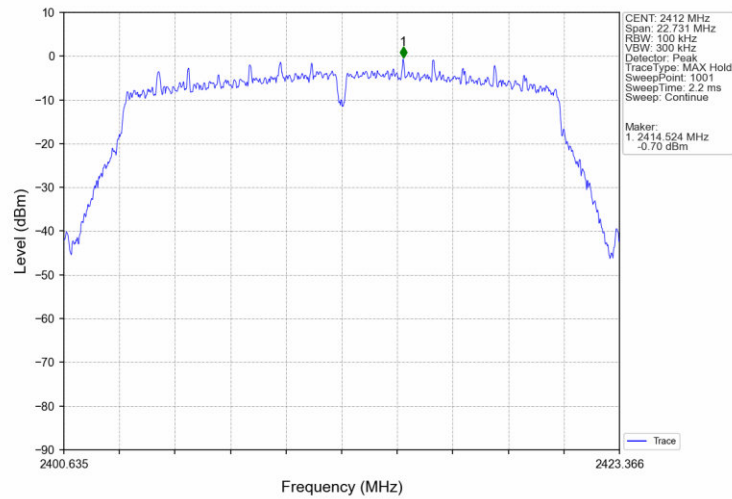
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

